From the INTERNATIONAL SEARCHING AUTHORIT	PCT			
To: Bailey, Walsh & Co. 5 York Place Leeds LS1 2SD UNITED KINGDOM	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION			
ONTIES KINGSON	(PCI Rule 44.1)			
	Date of mailing (day/month/year)			
Applicant's or agent's file reference JD/PW/6858 PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/GB94/00995	International filing date (day/month/year) 09/05/94			
Applicant				
INSITUFORM TECHNOLOGIES LTD et al.				
1. X The applicant is hereby notified that the international search	report has been established and is transmitted herewith.			
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):				
When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.				
Where? To the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35				
For more detailed instructions, see the notes on the accompanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.				
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2; the applicant is notified that:				
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicants's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4.Further action(s): The applicant is reminded of the following:				
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.				
Within 19 months from the priority date, a demand for internationa wishes to postpone the entry into the national phase until 30 months.	this from the priority date (in some Offices even later).			
Within 20 months from the priority date, the applicant must perfore before all designated Offices which have not been elected within I because they are not bound by Chapter II.	n the prescribed acts for entry into the national phase 9 months from the priority date or could not be elected			
Name and mailing address of the International Searching Authority	Authorized officer			

European Patent Office, P.B. 5818 Patentlaan 2 NI-2280 HV Rijswijk Tel. (+ 31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+ 31-70) 340-3016

M.A. Stolk

0 2 -09- 1994

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference JD/PW/6858	FOR FURTHER ACTION	see Notification o (Form PCT/ISA/	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date(day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB94/00995	09/05/94		25/09/93
Applicant	• .		
INSITUFORM TECHNOLOGIES L	TD et al.	4:	· · · · · · · · · · · · · · · · · · ·
This international search report has been according to Article 18. A copy is being t			ority and is transmitted to the applicant
This international search report consists of X It is also accompanied by a cop			·u.
1. Certain claims were found unsea	archable (see Box I).		
2. Unity of invention is lacking (see	e Box II).		
3. The international application co international search was carried	out on the basis of the seq	uence listing	ocid sequence listing and the
	l with the international appl nished by the applicant sepa		rnational application
		•	e effect that it did not include
· •	matter going beyond t	he disclosure in the	international application as filed.
Tra	nscribed by this Authority		
4. With regard to the title, X the	text is approved as submitte	ed by the applicant.	
	text has been established by	this Authority to r	ead as follows:
5. With regard to the abstract,			
	text is approved as submitte	ed by the applicant.	
Box		thin one month fror	2(b), by this Authority as it appears in n the date of mailing of this international
6. The figure of the drawings to be publ	lished with the abstract is:		
	uggested by the applicant.		None of the figures.
	ause the applicant failed to s	-	
Беса	ause this figure better charac	cterizes the invention	n.

PC1/GB 94.		LI/GB 94/00995		
A. CLASSI	IFICATION OF SUBJECT MATTER F16L55/16 B29C63/28			
170 0 110133/10 823003/20				
	to International Patent Classification (IPC) or to both national class	ification and IPC		
	S SEARCHED Iocumentation searched (classification system followed by classification)	ation symbols)		
IPC 6	F16L B29C	,		
Documentat	tion searched other than minimum documentation to the extent that	such documents are include	d in the fields searched	
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)				
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.	
A	WO,A,91 16568 (INSITUFORM GROUP	LTD.) 31	1	
	October 1991			
	see abstract; figures			
Α	EP,A,O 518 521 (GET INC.) 16 December		1	
	1992			
	see abstract; figures			
A	DE,U,91 06 179 (F. JANSSEN) 1 August 1991		1	
	see claims; figures			
Ä	WO,A,92 21909 (WAVIN B.V.) 10 December		1	
	1992		_	
	see abstract; figures			
ſ				
	·		·	
Furt	ther documents are listed in the continuation of box C.	Y Patent family mem	bers are listed in annex.	
* Special ca	ategories of cited documents:		ed after the international filing date	
	nent defining the general state of the art which is not lered to be of particular relevance	cited to understand the	ot in conflict with the application but principle or theory underlying the	
"E" earlier	document but published on or after the international	invention "X" document of particular	relevance; the claimed invention	
filing date cannot be considered novel or canno "L" document which may throw doubts on priority claim(s) or involve an inventive step when the do			ep when the document is taken alone	
citatio	is cited to establish the publication date of another in or other special reason (as specified)	cannot be considered t	relevance; the claimed invention o involve an inventive step when the	
other i	nent referring to an oral disclosure, use, exhibition or means	ments, such combinati	with one or more other such docu- on being obvious to a person skilled	
"P" document published prior to the international filing date but in the art. later than the priority date claimed "&" document member of the same paten		he same patent family		
Date of the	actual completion of the international search	Date of mailing of the	international search report	
,	A August 1994	0 2, 09, 94		
	4 August 1994			
Name and	Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 Authorized officer			
NL 2280 HV Rijswijk			en A	
Fax: (+31-70) 340-3016 Budtz-Olsen, A			en, A	

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المنافق المناس

IN RNATIONAL SEARCH REPORT

information on patent family members

nternational Application No PCT/GB 94/00995

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO-A-9116568	31-10-91	AU-B- 643019 AU-A- 7748691 CA-A- 2079335 EP-A- 0526521 TR-A- 25237	04-11-93 11-11-91 24-10-91 10-02-93 01-01-93
EP-A-0518521	16-12-92	JP-A- 4355115 US-A- 5329063	09-12-92 12-07-94
DE-U-9106179	01-08-91	DE-A- 4213898	19-11-92
WO-A-9221909	10-12-92	NL-A- 9100917 AU-A- 11978992	16-12-92 08-01-93



	From the INTERNATIONAL BUREAU				
PCT To:					
NOTIFICATION OF ELECTION (PCT Rule 61.2)	United States Patent and Trademark Office (Box PCT) Washington D.C. 20231 United States of America				
Date of mailing: 19 April 1995 (19.04.95)	in its capacity as elected Office				
International application No.: PCT/GB94/00995	Applicant's or agent's file reference: JD/PW/6858				
International filing date: 09 May 1994 (09.05.94)	Priority date: 25 September 1993 (25.09.93)				
Applicant: TAYLOR, Kevan, Charles					
1. The designated Office is hereby notified of its election made: X in the demand filed with the International Preliminary Examining Authority on: 23 March 1995 (23.03.95) in a notice effecting later election filed with the International Bureau on: 2. The election X was was not was not					

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer:

P. Steunenberg

Telephone No.: (41-22) 730.91.11

Facsimile No.: (41-22) 740.14.35

From the INTERNATIONAL BUREA

PCT

NOTIFICATION CONCERNING DOCUMENT TRANSMITTED

To:

United States Patent and Trademark Office (Box PCT) Washington D.C. 20231 United States of America

Date of mailing (day/month/year) 02 August 1995 (02.08.95)

in its capacity as elected Office

International application No. PCT/GB94/00995

International filing date (day/month/year) 09 May 1994 (09.05.94)

Applicant

INA ACQUISITION CORP. et al

The International Bureau transmits herewith the following documents and number thereof:

copy of the international preliminary examination report (Article 36(3)(a))

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

K. Andreasson

Facsimile No.: (41-22) 740.14.35

Telephone No.: (41-22) 730.91.11

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PATENT COOPERATION TREAT

PCT

REC'D **25 JUL 1995**WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

FOR FURTHER ACTION	See Notificati			
spplicant's or agent's file reference FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International filing date (de	zy/month/year)	Priority date (day/month/year)		
09/05/1994		25/09/1993		
r national classification and IF	°C			
F16L55/16				
		·		
t al.				
he applicant according to Alue	cie 30.			
al of 4 sheets, inclu	ding this cover she	eL		
nnied by ANNEXES, i.e., sho basis for this report and/or sho a 607 of the Administrative Inc	eets of the descripti	ion, claims and/or drawings which have ifications made before this Authority		
and corresponding pages relati	ing to the following	g items:		
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
ited				
VII Certain defects in the international application				
VIII Certain observations on the international application				
	Date of completion	on of this report		
		2 4. 07. 95		
1	Authorized officer			
		Y) W//		
523656 epmu d		id Borowski		
1004) (27/6	Telephone No-	M. Bergzoff		
	F16L55/16 t al. amination report has been prehe applicant according to Article anied by ANNEXES, i.e., should be applicant according to Article anied by ANNEXES, i.e., should be applicated and corresponding pages related and corresponding pages related as international applications on the international applications on the international applications.	r national classification and IPC F16L55/16 t al. amination report has been prepared by this Interhe applicant according to Article 36. tal of sheets, including this cover she anied by ANNEXES, i.e., sheets of the descript basis for this report and/or sheets containing rect not 7 of the Administrative Instructions under the of sheets. and corresponding pages relating to the following of opinion with regard to novelty, inventive step a cention under Article 35(2) with regard to novelty, inventations supporting such statement sited the international application is on the international application Date of completic Authorized offices Authorized offices 523656 epmu d Telephone No.		

Intern. application No.
PCT/GB94/00995

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

I. Basis of the report	
 This report has been drawn up on the basis of (Replacement of the in response to an invitation under Article 14 are remote annexed to the report since they do not contain amendment. 	ferred to in this report as "originally filed" and are
$[\mathbf{x}]$ the international application as originally filed.	
[] the description, pages	, as originally filed,
pages	, filed with the demand,
	, filed with the letter of,
pages	, filed with the letter of,
[] the claims, Nos.	, as originally filed,
Nos	, as amended under Article 19,
Nos	, filed with the demand,
Nos.	, filed with the letter of,
Nos.	, filed with the letter of,
	•
[] the drawings, sheets/fig	, as originally filed,
sheets/fig	filed with the demand,
sheets/fig	, filed with the letter of,
sheets/fig	, filed with the letter of
2. The amendments have resulted in the cancellation of:	
[] the description, pages	<u></u> •
[] the claims, Nos.	<u></u> •
[] the drawings, sheets/fig	*
3. [] This report has been established as if (some of) the a	mendments had not been made, since they have been
considered to go beyond the disclosure as filed (Rule	70.2(c)):
4. Additional observations, if necessary:	
•	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

V. Reasoned statement under Article 35(citations and explanations supportin		strial applicability;
1. STATEMENT		
Novelty (N)	Claims 1 - 10	YES
	Claims	NO
Inventive Step (IS)	Claims 1 - 10	YES
•,	Claims	NO
Industrial Applicability (IA)	Claims 1 - 10	YES
	Claims	NO

2. CITATIONS AND EXPLANATIONS

- None of the cited documents discloses an assembly or a method including all the features of claims 1 and 8 respectively.
 - Consequently the subject-matter of claims 1 and 8 and their respective dependent claims 2 to 7, 9 and 10 is novel (article 33(2) PCT).
- None of the cited documents suggests alone or in combination to provide an assembly as defined in claim 1 of the application.

Furthermore none of the documents suggests the specific method of assembling the assembly disclosed in claims 8. Consequently the subject-matter of claims 1 and 8 and their respective dependent claims 2 to 7, 9 and 10 involves an inventive step (article 33(3) PCT).

3. The industrial applicability of the subject-matter of claims 1 to 10 is evident (article 33(4) PCT).

Intern. application No. PCT/GB94/00995

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

Claim 1 is not properly delimited having regard to the prior art cited in the description (rule 6.3 (b) PCT).

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6: F16L 55/16, B29C 63/28

A1

(11) International Publication Number:

WO 95/08737

(43) International Publication Date:

30 March 1995 (30.03.95)

(21) International Application Number:

PCT/GB94/00995

(22) International Filing Date:

9 May 1994 (09.05.94)

(30) Priority Data:

9319832.3

25 September 1993 (25.09.93) GI

(71) Applicant (for all designated States except AU CA NZ US): INA ACQUISITION CORP. [US/US]; Suite 300, 1770 Kirby Parkway, Memphis, TN 38138 (US).

(71) Applicant (for AU NZ only): INSITUFORM LICENSEES B.V./S.A. [NL/NL]; 3rd floor, West Blaak 6, NL-3012 KK Rotterdam (NL).

(71) Applicant (for CA only): INSITUFORM (NETHERLANDS)
B.V. [NL/NL]; 3rd floor, West Blaak 6, NL-3012 KK
Rotterdam (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): TAYLOR, Kevan, Charles [GB/GB]; Cynon, Neweys Hill, Worcester WR3 7DZ (GP)

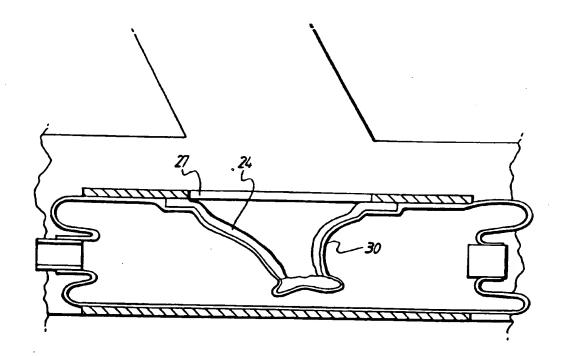
(74) Agent: BAILEY WALSH & CO.; 5 York Place, Leeds Lo. 2SD (GB).

(81) Designated States: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KG, KP, KR, KZ, LK, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published

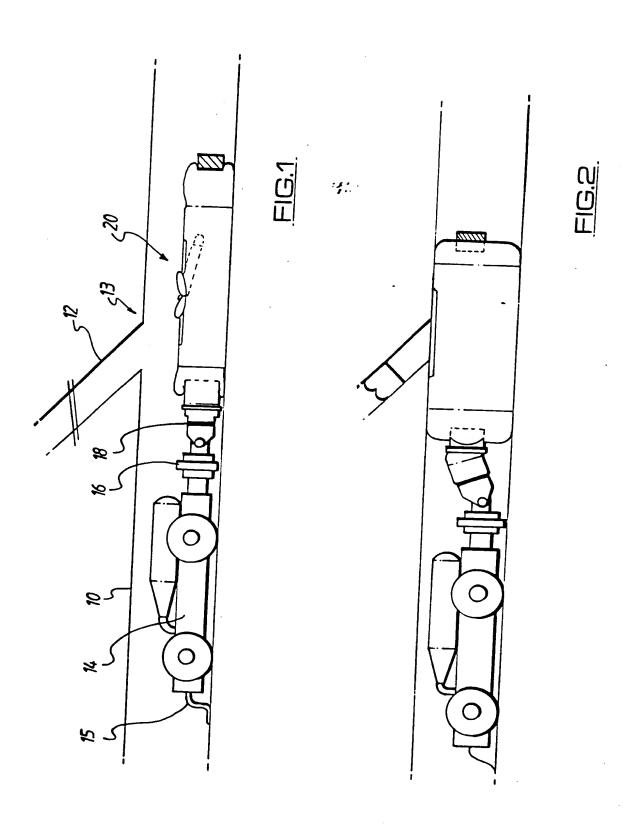
With International search report.

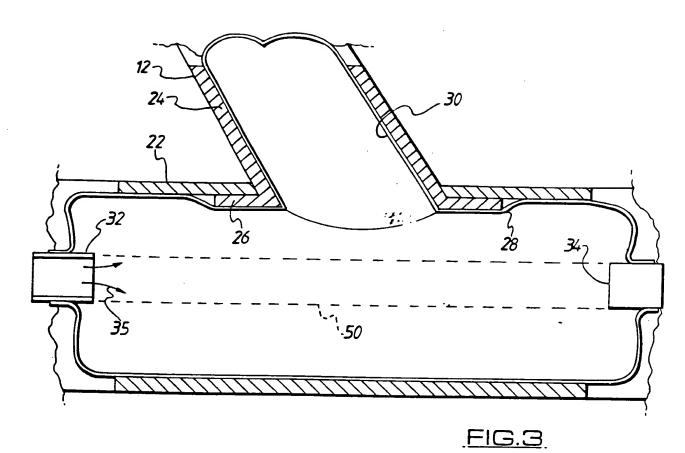
(54) Title: IMPROVEMENTS RELATING TO THE LINING OF PIPELINES AND PASSAGEWAYS

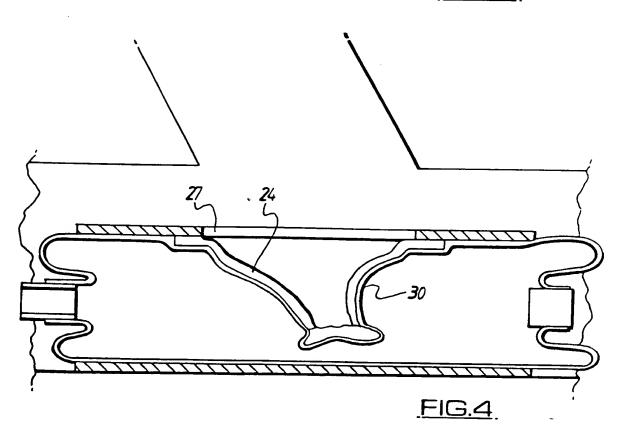


(57) Abstract

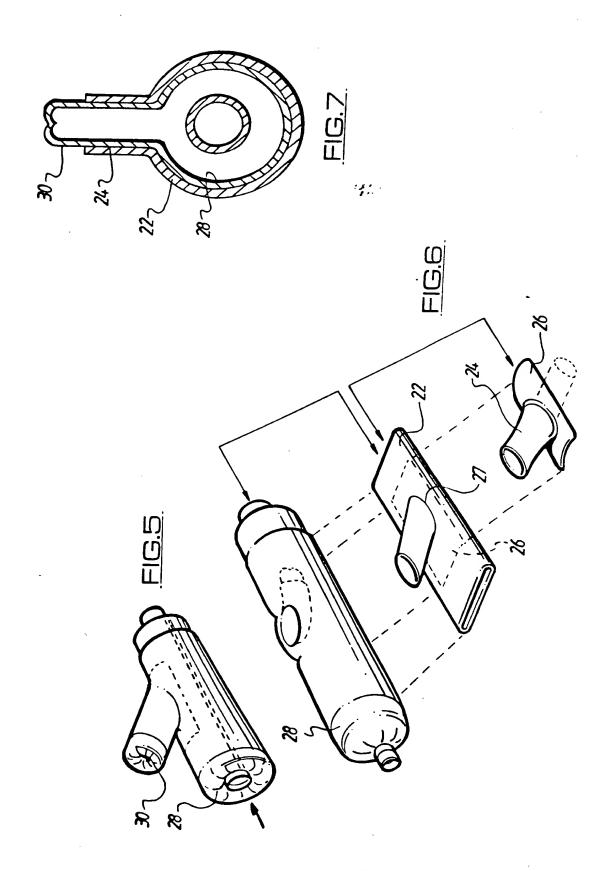
The invention provides a tailored assembly of a flexible resin absorbent material (22, 24, 26). It is in the form of a "T" and is of tubular cross section. The arms of the T are intended to lie on the surface of a main underground pipe which the leg of the T extends into a lateral pipe which connects with the main pipe. The whole assembly is soaked in curable synthetic resin and it is placed in position and held there whilst the resin cures by means of an inflatable bag (28) which is located inside the assembly and is also tailored to T configuration.







SUBSTITUTE SHEET (RULE 26)



SUBSTITUTE SHEET (RULE 26)

INTERNATIONAL SEARCH REPORT International application No. PCT/GB 94/00995

			.,		
A. CLAS.	A. CLASSIFICATION OF SUBJECT MATTER IPC 6 F16L55/16 B29C63/28				
coording to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELD	S SEARCHED				
IPC 6	Minimum documentation searched (classification system followed by classification symbols)				
Document	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
		-			
Electronic	data base consulted during the international search (name of data b	ase and, where practical, search terms used			
	4.				
C. DOCU	MENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.		
A	WO,A,91 16568 (INSITUFORM GROUP October 1991	LTD.) 31	1		
	see abstract; figures		•		
A	EP,A,O 518 521 (GET INC.) 16 December 1992		1		
A	see abstract; figures DE,U,91 06 179 (F. JANSSEN) 1 August 1991		1		
,	see claims; figures		•		
A	WO,A,92 21909 (WAVIN B.V.) 10 December 1992		1		
	see abstract; figures				
	• .				
ليا	her documents are listed in the continuation of box C.	Patent family members are listed	n annex.		
*Special categories of cited documents: T later document published after the international fill or priority date and not in conflict with the applicated to understand the principle or theory underly			th the application but		
	ered to be of particular relevance document but published on or after the international date	invention "X" document of particular relevance; the cannot be considered novel or cannot	claimed invention		
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another 'Y' d		involve an inventive step when the do "Y" document of particular relevance; the	cument is taken alone claimed invention		
O' document referring to an oral disclosure, use, exhibition or document is co		cannot be considered to involve an in document is combined with one or m ments, such combination being obviou in the art.	ore other such docu-		
later ti	actual completion of the international search	*&* document member of the same patent Date of mailing of the international se			
	4 August 1994	0 2. 09. 94			
Name and r	nailing address of the ISA European Patent Office, P.B. \$818 Patentlaan 2	Authorized officer			
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Riptwijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016 Budtz-Olsen, A					

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ERNATIONAL SEARCH REPORT

	ornization on patient randity incliners		PCT/GB 94/00995	
Patent document cited in search report	Publication date		family ber(s)	Publication date
WO-A-9116568	31-10-91	AU-B- AU-A- CA-A- EP-A- TR-A-	643019 7748691 2079335 0526521 25237	04-11-93 11-11-91 24-10-91 10-02-93 01-01-93
EP-A-0518521	16-12-92	JP-A- US-A-	4355115 5329063	09-12-92 12-07-94
DE-U-9106179	01-08-91	DE-A-	4213898	19-11-92
WO-A-9221909	10-12-92	NL-A- AU-A-	9100917 1978992	16-12-92 08-01-93

International application No.



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		f Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
JD/PW/6858	ACTION		
International application No.	International filing date(day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB94/00995	09/05/94		25/09/93
Applicant			
**************************************	*n		
INSITUFORM TECHNOLOGIES L	ID et al.		
This international search report has been according to Article 18. A copy is being to			ority and is transmitted to the applicant
This international search report consists of X It is also accompanied by a cop		sheets. nt cited in this repor	t.
1. Certain claims were found unsea	rchable (see Box I).		
2. Unity of invention is lacking (see	Box II).		
3. The international application co international search was carried	ntains disclosure of a nucle out on the basis of the seq	otide and/or amino a uence listing	cid sequence listing and the
filed	l with the international app	lication.	
furr	nished by the applicant sepa	rately from the inter	national application,
	but not accompanied matter going beyond	by a statement to the the disclosure in the	e effect that it did not include international application as filed.
Tra	nscribed by this Authority		
4. With regard to the title, X the	text is approved as submitt	ed by the applicant.	
the	text has been established by	y this Authority to re	ead as follows:
5. With regard to the abstract,			
	text is approved as submitt		O(I) Lead in Ambanian as it assessed
Вох		ithin one month fron	2(b), by this Authority as it appears in n the date of mailing of this international
6. The figure of the drawings to be publ	ished with the abstract is:		
	uggested by the applicant.	_	None of the figures.
	use the applicant failed to		
beca	ause this figure better chara	cterizes the invention	n.

Form PCT/ISA/210 (first sheet) (July 1992)

A. CLASSI IPC 6	F16L55/16 B29C63/28	•						
			Y.					
According to International Patent Classification (IPC) or to both national classification and IPC								
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols)								
IPC 6 F16L B29C								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)								
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category °	Citation of document, with indication, where appropriate, of the	Relevant to claim No.						
A	WO,A,91 16568 (INSITUFORM GROUP October 1991	1						
	see abstract; figures							
A	EP,A,O 518 521 (GET INC.) 16 Dec	1						
	1992 see abstract; figures							
A	DE,U,91 06 179 (F. JANSSEN) 1 August 1991 see claims; figures		1					
A	WO,A,92 21909 (WAVIN B.V.) 10 December 1992		1					
	see abstract; figures							
Furt	ther documents are listed in the continuation of box C.	Patent family members are listed	in annex.					
* Special categories of cited documents:								
'A' docum	ernational filing date ith the application but heory underlying the							
considered to be of particular relevance invention E' earlier document but published on or after the international "X" document of particular relevance; the claimed invention								
"L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken at which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention								
"O" docum	nventive step when the nore other such docu- ous to a person skilled							
"P" docum later t	t family							
Date of the	earch report							
24 August 1994		0 2. 09. 94						
Name and	mailing address of the ISA	Authorized officer						
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+ 31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+ 31-70) 340-3016		Budtz-Olsen, A						

1

NIEKNATIONAL SEARCH KEPORT

rmation on patent family members

CT/GB 94/00995

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
₩O-A-9116568	31-10-91	AU-B- AU-A- CA-A- EP-A- TR-A-	643019 7748691 2079335 0526521 25237	04-11-93 11-11-91 24-10-91 10-02-93 01-01-93
EP-A-0518521	16-12-92	JP-A- US-A-	4355115 5329063	09-12-92 12-07-94
DE-U-9106179	01-08-91	DE-A-	4213898	19-11-92
WO-A-9221909	10-12-92	NL-A- AU-A-	9100917 1978992	16-12-92 08-01-93